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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/799,608	03/15/2004	Norikazu Ota	119100	8411

25944 7590 04/18/2007
OLIFF & BERRIDGE, PLC
P.O. BOX 19928
ALEXANDRIA, VA 22320

EXAMINER

KAYRISH, MATTHEW

ART UNIT	PAPER NUMBER
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2627

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No. 10/799,608	Applicant(s) OTA ET AL.	
	Examiner Matthew G. Kayrish	Art Unit 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 March 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3,4 and 6-14 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3,4 and 6-14 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1, 4 and 8 have been considered but are moot in view of the new ground(s) of rejection. The amendments to claims 1, 4 and 8 have been entered. New claims 12-14 have been added. Claims 2 and 5 have been canceled. Claims 1, 3, 4 and 6-14 remain pending.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 4, 6, 8-10 and 12-14 rejected under 35 U.S.C. 102(b) as being anticipated by Ainslie et al (US Patent Number 4761699).

Regarding claims 1, 4, 8 and 9, Ainslie discloses:

A hard disk drive comprising:

A recording medium (column 1, lines 15-28);

A head gimbal assembly comprising:

An arm member (figure 1, item 10) mounted with the head slider (figure 1, item 16);

A head slider comprising:

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A support (figure 1, item 16 is the support); and

A magnetic head part (figure 2, items 11 & 13), formed on the support (figure 2), for carrying out at least one of recording and reproducing of information (column 1, lines 15-28);

The magnetic head part comprising:

A device to be energized (figure 2, items 11 & 13 have to be energized), including first (figure 2, items 19 & 21) and second poles (figure 6, item 70) for supplying a current therebetween; and

An energizing electrode pad (figure 6, item 41) disposed on a first surface of the magnetic head part on a side opposite from the support (figure 6);

The first pole (figure 6, item 21) of the device to be energized, being electrically connected to the electrode pad (figure 6, item 21 connects to item 41);

The second pole of the device to be energized, being conductible (column 7, lines 40-50) by way of a second surface of the head slider (figure 6), the second surface being different from the first surface and being substantially parallel to and bonded to (figure 6, via item 80) a surface of an arm member (figure 6).

Regarding claims 6 and 10, Ainslie discloses:

Wherein the second surface is in contact with the arm member (figure 6, via items 70 & 80).

Regarding claims 12-14, Ainslie discloses:

Wherein the second surface is substantially perpendicular to the first surface (figure 6).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 7 and 11 rejected under 35 U.S.C. 103(a) as being unpatentable over Ainslie et al, in view of Kamijima (US PG-Pub 2003/0099054).

Regarding claims 3, 7 and 11, Ainslie discloses the features of base claims 1, 4 and 8, as stated in the 102 rejection above, and further disclosing:

Wherein the magnetic head part comprises a magnetoresistive device (figure 2, items 11 and 13) for reproducing (column 1, lines 15-28), an inductive electromagnetic transducer for recording (column 1, lines 15-28);

Wherein the device to be energized is one of devices of the magnetoresistive device, inductive electromagnetic transducer (column 5, lines 46-59); and

Wherein the devices other than the device to be energized are connected to respective pairs of electrode pads disposed on the first surface (figure 2, more than one device is connected via the electrode pads).

Ainslie fails to specifically disclose:

A heater element for generating heat upon energization.

Kamijima discloses:

A heater element (figure 4, item 45) for generating heat upon energization (page 5, paragraph 84).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the head of Ainslie with a heater element, as taught by Kamijima, because this will cause thermal expansion so that the magnetic head will be closer to the disc during operation, as stated in paragraph 11.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew G. Kayrish whose telephone number is 571-272-4220. The examiner can normally be reached on 8am - 5pm M-F.

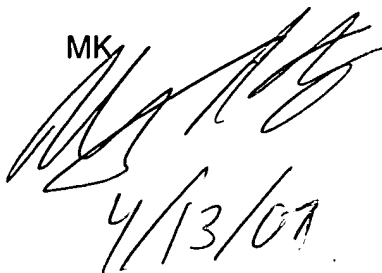
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Matthew G. Kayrish

4/13/2007

MK



4/13/07



WAYNE YOUNG
SUPERVISORY PATENT EXAMINER